

ATTACHMENT J-6

**NOAA SWATH
Coastal Mapping Vessel (CMV)**

**Statement of Requirements
for
Implementation of the
Survey Launch
Mission Suitability Feature**



January 26, 2004
Revision A

**United States Department of Commerce
National Oceanic and Atmospheric Administration**

NOAA SWATH
Coastal Mapping Vessel

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REVISION HISTORY

Revision A – Released with Contract Modification 0001.

1. General - Survey Launch Objective

The implementation of a Survey Launch capability for the NOAA SWATH Coastal Mapping Vessel (CMV) is an objective for the Contractor to incorporate in the preliminary design. A partial implementation is not desired.

The boat will support dive operations and inshore hydrographic surveys. Boat will be loaded and manned for lowering and retrieving. A loading platform, fueling system, electrical service, and fresh water wash down, and clean seawater shall be provided.

The full implementation shall include:

- a. Space and Weight for a SeaArk Marine model 23VC Commander Hydrographic Survey Launch,
- b. Davits to launch, retrieve and stow the fully manned and operational Survey Launch,
- c. Capability to load a Science Van in lieu of the Survey Launch,
- d. Increase in ship's complement to 14,
- e. Two additional single staterooms (with a shared Toilet and Shower),
- f. Services to the Survey Launch and Van including: loading platform, fueling system, electrical service, communications, Mission fiber optic LAN connection, fresh water service, washdown and clean seawater.

2. Survey Launch – The CMV shall be capable of launching and retrieving a fully functional SeaArk Marine model 23VC Commander Hydrographic Survey Launch. The survey launch will be GFE.

3. Survey Launch Davits – Double arm davits (such as **Welin Lambie**) and an integrated stowage cradle shall be provided by the Contractor. Launching and recovery of the survey launch shall be safely accomplished in seas of 1.5 meters. Sea Trials shall demonstrate launching and retrieval of a loaded survey launch.

4. Science Van Capability – The CMV shall have the capability to carry one 20-foot ISO container, in lieu of the survey launch. The van must be oriented fore and aft. Underdeck strengthening shall be provided to withstand loading imposed by stowage of an ISO 1CC 20 foot van, with a maximum weight not to exceed that of the survey boat. Flush ISO container corner fittings shall be permanently installed, in the deck at the van stowage location.

5. Accommodations – Two additional single staterooms sharing a T&S shall be provided. These shall become the master and chief engineer's staterooms. Single staterooms shall be provided with a forward facing fixed window and outboard facing hinged window.

Furnishings for single staterooms shall be in accordance with Table 1:

Table 1. Single Stateroom Furnishings

Qty	Item	Type	Remarks
1	Berth	Single, Officer's, with 3 drawers under	
1	Desk	Flat top, single pedestal	
1	Desk lamp		
2	Side chair		
1	Clothes locker	Single door, with shelves and hanging section	
1	Chest of drawers	Officer's, three drawer	
1	Swivel chair		
1	Waste basket		
2	Book rack		
1	File cabinet	Five drawer	
2	Coat and hat hook		
1	Life jacket, EEBD and survival suit stowage		

6. Crew Size Impact on Vessel Design – Complement related facilities, services, lifesaving equipment, stores, and functions shall be based on 14 persons.

7. Services –Services to the survey launch and van must be provided with quick disconnect fittings located near the survey launch / van site. Portable service cables and hoses must be provided and must be capable of being routed to the van without obstruction to access routes, other equipment or operations. ISO fittings must be provided to secure the van to the deck.

Services for the survey launch / van site shall include:

- a. Scientific Cableway – The scientific cableway called out in SOR Section 304a, shall include a run between the Charting Laboratory and the survey launch / van site.
- b. Ship Service Power – A watertight 480 volt, three-phase ship service power connection shall be provided. This circuit shall be rated at 30 A.
- c. Scientific Power System – A 120 volt transformer shall be provided to supply the survey launch / van site.
- d. Lighting – Fixed, watertight spotlights shall be provided to illuminate the hoisted load on the davits.
- e. Dial Telephone System – A weatherproof telephone connection box must be provided in the vicinity of the survey launch / van site.
- f. Mission fiber optic Local Area Network – A weatherproof LAN connection box shall be provided at the survey launch / van site.
- g. Public Address System – A portable microphone/speaker station shall be provided at the survey launch / van site. The station shall be included in Group 6 of SOR Section 432c.

- h. Intercom System – The survey launch / van site shall be included as an exterior slave station to the system provided by SOR Section 432d.
- 5 i. The survey launch / van site must be clear of obstructions and sounding tubes, and must not block access routes. A loading platform shall be provided to access the survey launch in the stowed position.
- j. Fresh Water – Hot and cold potable water hose bibbs must be provided at the survey launch / van site.
- k. Ship Service Air – Ship service air, with 15 m of hose, end fitting, quick disconnect and filter regulator, shall be provided for the survey launch / van site.
- 10 l. Fuel Fill and Transfer System – The Fuel Fill and Transfer shall provide means to fuel the Survey Launch in the stowed position, with the capability of purifying the fuel prior to fueling the boat.

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